



INTRINSICALLY SAFE PRESSURE TRANSDUCER

MODEL 311Z, I, GI, AI

FEATURES:

- 0 to 5 PSI thru 0 to 75K PSI (75 MBAR to 1,034 BAR)
- FM, CSA, ATEX & IEC approvals
- Welded, rugged construction
- Optional high overpressure protection



Model 311Z, I, GI, AI
Intrinsically Safe Pressure Transducer

APPLICATIONS:

- Rig safety systems
- Well head control
- Gas pipeline
- Control panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:

GP:50's Model 11 series provides a rugged solution in hazardous approved areas. The all welded, stainless steel design provides years of reliable service in some of the harshest applications.



FIELD OPTIONS:

- FM, CSA ATEX, IEC Intrinsically Safe
- Zero & Span adjust
- Alternate connectors & pressure ports
- For Explosion-proof see model 311X/P



© 2014 GP:50 NY Ltd. | 2770 Long Road, Grand Island, NY 14072 USA

Tel: +1.716.773.9300 Fax: +1.716.773.5019 Email: sales@gp50.com Web: www.gp50.com

A5SL-024

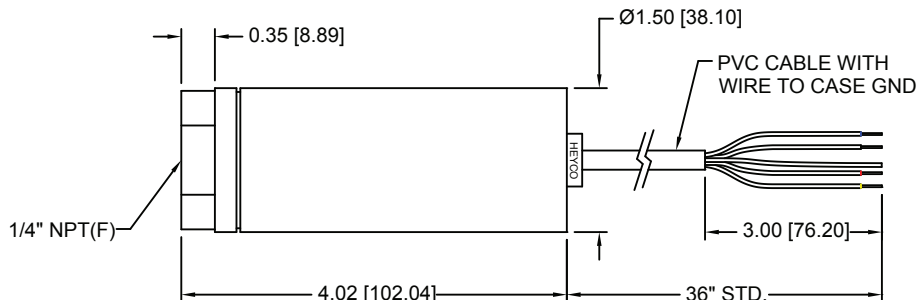
GP:50 MODEL 311Z, I, GI, AI

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 311Z//GI//AI
1/RED	+EXC/SIG
2/GRN	CASE GND
3/WHT	N/C
4/BLK	-EXC/SIG



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> Excitation Voltage: (311Z) 9 to 36 Vdc excitation (311I, GI, AI) 10 to 28 Vdc excitation Output Signal: 4-20 mA output Circuit Protection: RFI and EMI Load Impedance: 750 Ω max. to 24 Vdc Insulation Resistance: >10 MΩ @ 50 Vdc, +70 °F Response Time: <5 ms 10% to 90% Connection: 36" long PVC Jacketed, 18 AWG, 4 conductor cable (or equivalent) 	<ul style="list-style-type: none"> Zero Balance and FSO: ±1% FSO at +70 °F Process Connection: 1/4" NPT (F) for ranges <20 KPSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI (1,379 to 5,171 BAR) Proof Pressure: 2X FSO or 22,500 PSI (1,551 BAR), whichever is less Burst Pressure: 5X FSO or 22,500 PSI (1,551 BAR), whichever is less Approximate Weight: 10 oz (0.3 kg) nominal, options may increase weight
MATERIALS OF CONSTRUCTION	PRESSURE RANGES
<ul style="list-style-type: none"> Wetted Parts: 316 or 17-4 PH stainless steel (options available consult factory) Housing: 316 stainless steel 	<ul style="list-style-type: none"> 0 to 5 thru 0 to 75K PSI (0 to 0.3 thru 0 to 5,171 BAR) (PSIG, PSIS, PSIA, PSIV & Compound ranges available)
STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	THERMAL SPECIFICATIONS
Standard ±0.5% Improved ±0.2% and ±0.1%	<ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-18 °C to +82 °C) Operating Process: -40 °F to +176 °F (-40 °C to +80 °C) Storage: -65 °F to +250°F (-53 °C to +121 °C) Effect on Zero/Span: ±2.0% FSO/100 °F

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.